

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P270153

Luminaire Tested: **GWC-AF-01-LED-E1-SL2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-SL2-7027
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5409.9 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

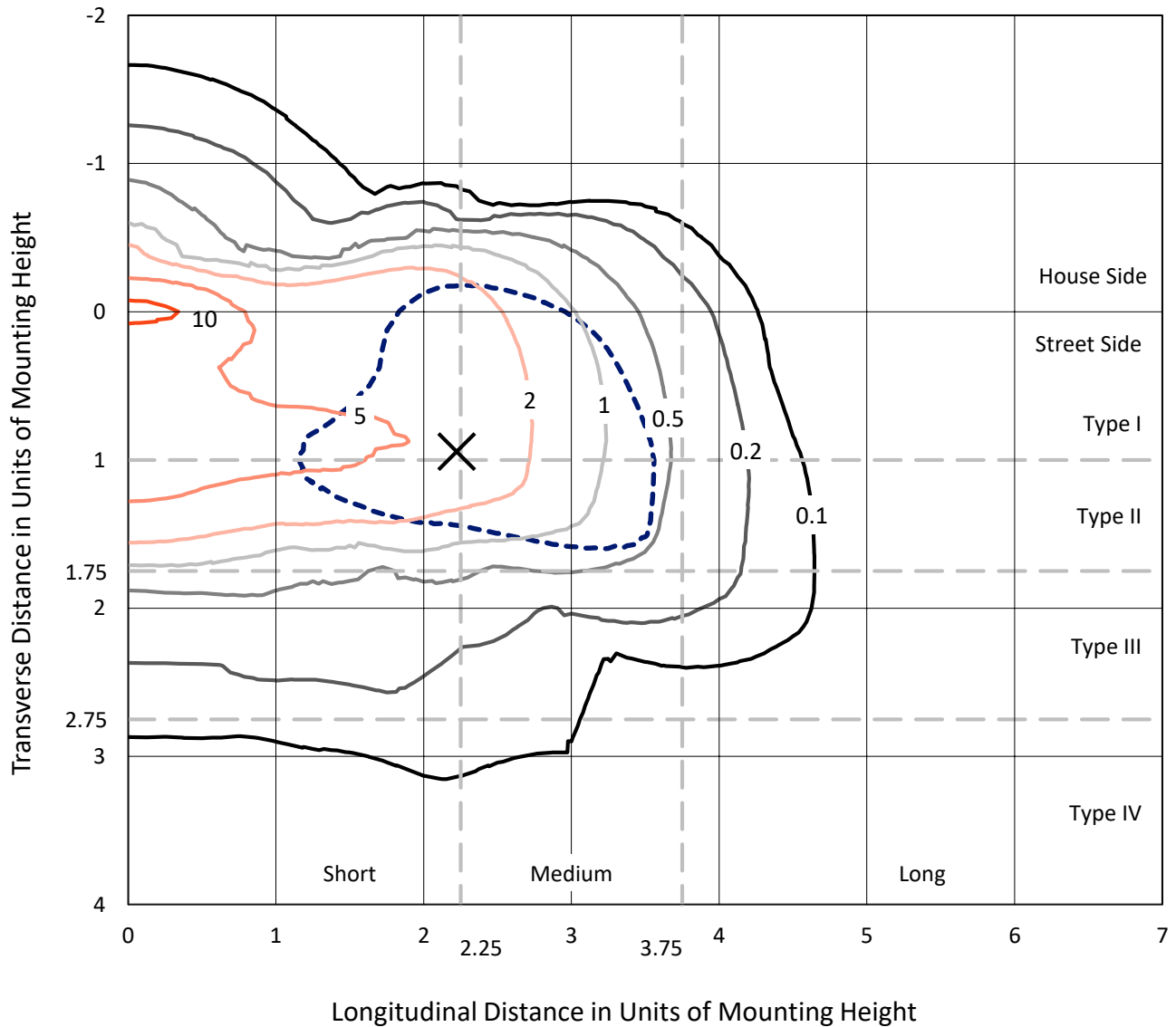
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P270153
 CATALOG NUMBER: GWC-AF-01-LED-E1-SL2-7027

Iso-Footcandle Lines of Horizontal Illumination

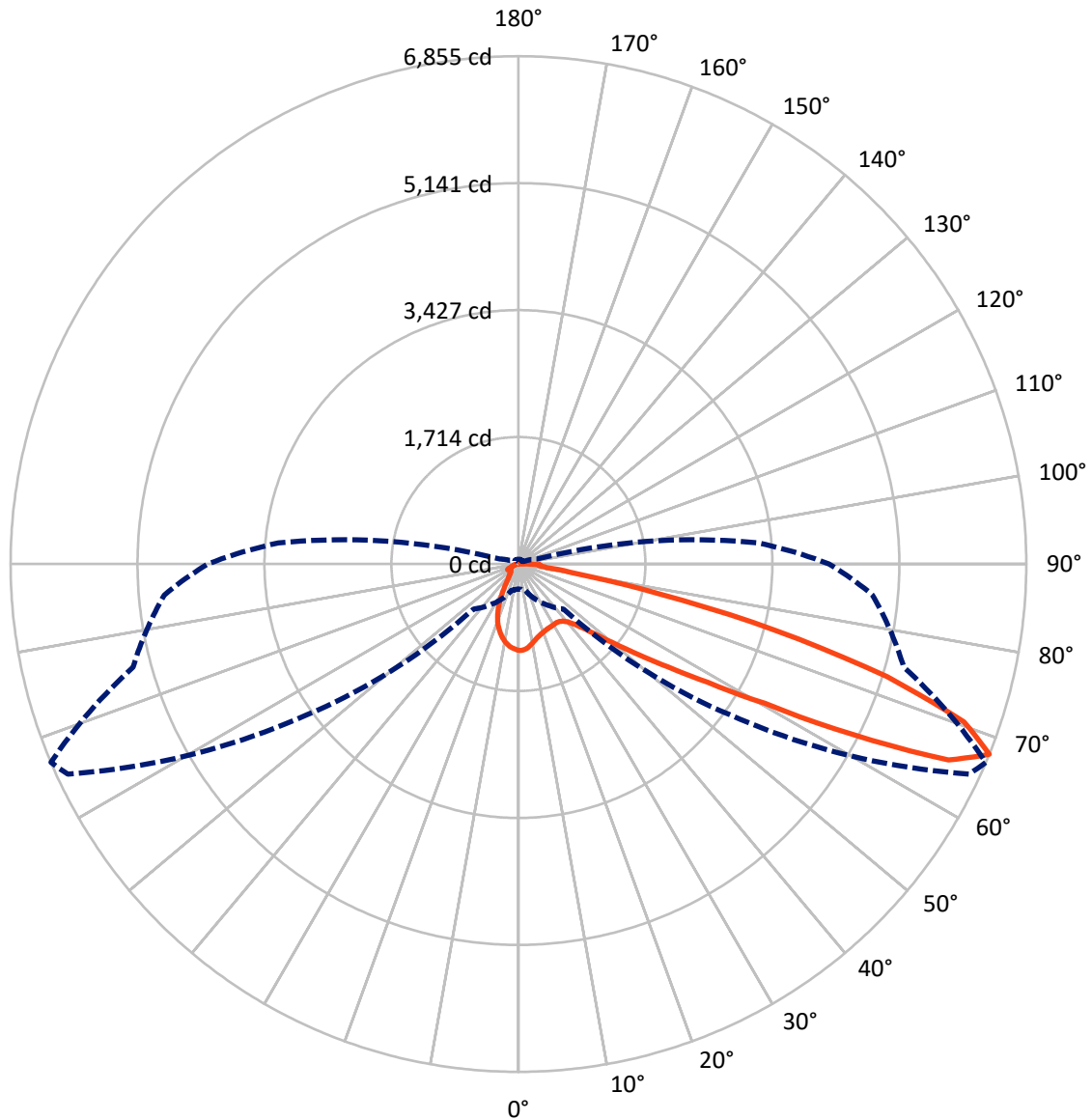
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P270153
CATALOG NUMBER: GWC-AF-01-LED-E1-SL2-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P270153
 CATALOG NUMBER: GWC-AF-01-LED-E1-SL2-7027

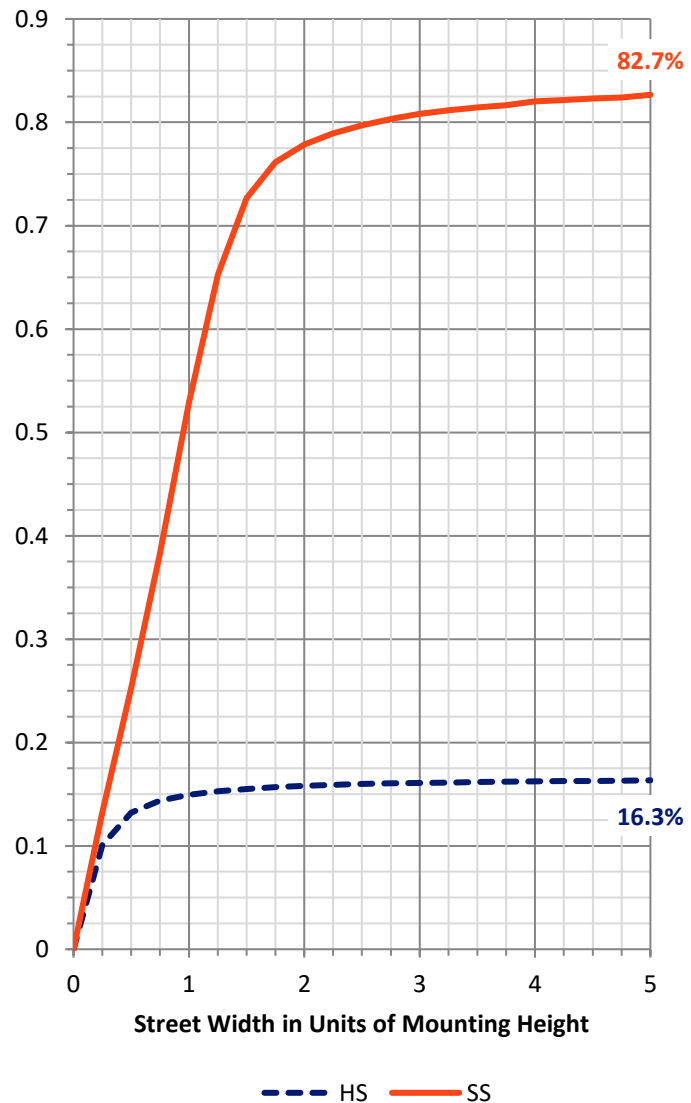
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 896.4 | 0.0 | 896.4 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 4513.5 | 0.0 | 4513.5 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 5409.9 | 0.0 | 5409.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.6 | 1.8 |
| 10°-20° | 230.4 | 4.3 |
| 20°-30° | 312.2 | 5.8 |
| 30°-40° | 443.9 | 8.2 |
| 40°-50° | 742.7 | 13.7 |
| 50°-60° | 1174.9 | 21.7 |
| 60°-70° | 1496.7 | 27.7 |
| 70°-80° | 784.0 | 14.5 |
| 80°-90° | 125.7 | 2.3 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 5409.9 | 100.0 |
| 0°-180° | 5409.9 | 100.0 |



REPORT NUMBER: P270153

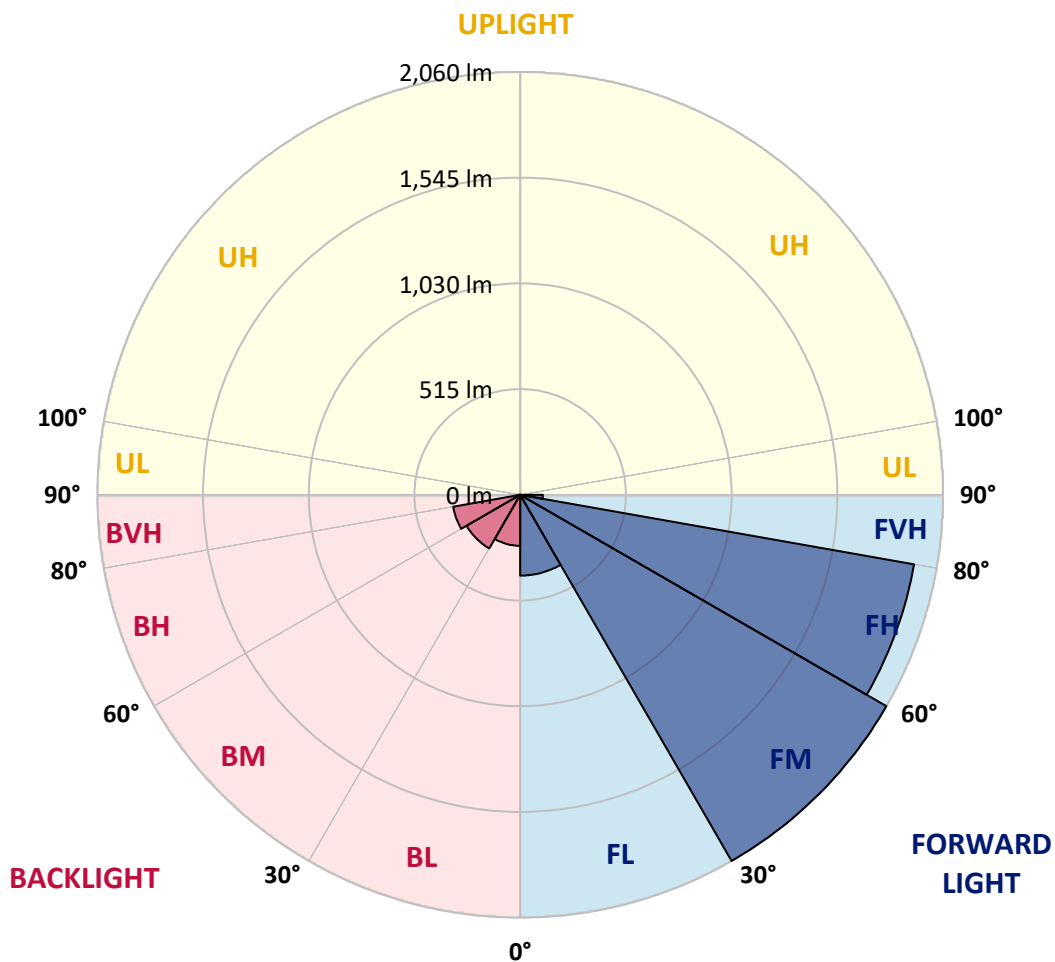
CATALOG NUMBER: GWC-AF-01-LED-E1-SL2-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 393.7 | 7.3 | | | |
| FM (30°-60°) | 2060.2 | 38.1 | | | |
| FH (60°-80°) | 1949.1 | 36.0 | | | G2/5000 |
| FVH (80°-90°) | 110.5 | 2.0 | | | G2/225 |
| BL (0°-30°) | 248.4 | 4.6 | B1/500 | | |
| BM (30°-60°) | 301.2 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 331.5 | 6.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 15.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P270153

CATALOG NUMBER: GWC-AF-01-LED-E1-SL2-7027

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1166.9 | 1166.9 | 1166.9 | 1166.9 | 1166.9 | 1166.9 | 1166.9 | 1166.9 | 1166.9 | 1166.9 | 1166.9 |
| 2.5° | 1118.8 | 1120.7 | 1126.7 | 1130.3 | 1147.1 | 1154.3 | 1159.4 | 1164.6 | 1165.3 | 1167.6 | 1165.3 |
| 5° | 1001.5 | 1005.6 | 1016.4 | 1028.6 | 1061.3 | 1086.9 | 1113.8 | 1141.8 | 1146.9 | 1165.0 | 1170.1 |
| 7.5° | 910.5 | 909.4 | 918.5 | 933.2 | 966.5 | 1002.0 | 1049.3 | 1105.0 | 1116.0 | 1156.7 | 1176.5 |
| 10° | 844.0 | 843.2 | 852.9 | 868.1 | 899.8 | 933.5 | 986.8 | 1063.1 | 1078.7 | 1143.7 | 1182.7 |
| 12.5° | 795.0 | 795.3 | 804.9 | 821.7 | 854.0 | 887.9 | 942.1 | 1022.6 | 1042.4 | 1128.5 | 1189.0 |
| 15° | 762.5 | 764.5 | 772.4 | 790.1 | 821.7 | 855.5 | 908.6 | 992.2 | 1014.2 | 1116.6 | 1196.3 |
| 17.5° | 751.5 | 754.9 | 757.7 | 770.7 | 797.7 | 831.7 | 883.7 | 969.8 | 993.3 | 1108.1 | 1202.7 |
| 20° | 761.7 | 765.6 | 760.5 | 765.1 | 782.2 | 812.1 | 863.8 | 952.2 | 976.2 | 1098.8 | 1203.5 |
| 22.5° | 805.2 | 808.8 | 793.9 | 780.8 | 779.8 | 798.0 | 847.6 | 938.3 | 963.2 | 1091.9 | 1203.6 |
| 25° | 881.7 | 884.1 | 859.0 | 828.6 | 799.0 | 792.8 | 836.1 | 928.7 | 955.1 | 1085.8 | 1198.7 |
| 27.5° | 975.6 | 977.4 | 948.7 | 903.9 | 844.3 | 804.9 | 832.1 | 923.1 | 950.5 | 1080.5 | 1190.2 |
| 30° | 1089.9 | 1098.5 | 1059.9 | 1003.3 | 916.7 | 840.4 | 840.0 | 920.1 | 945.5 | 1071.4 | 1173.2 |
| 32.5° | 1206.7 | 1210.3 | 1183.6 | 1126.4 | 1014.0 | 902.7 | 862.6 | 922.3 | 944.2 | 1060.4 | 1151.9 |
| 35° | 1325.1 | 1329.9 | 1312.6 | 1266.4 | 1147.1 | 994.3 | 906.3 | 934.7 | 952.5 | 1056.8 | 1137.1 |
| 37.5° | 1478.5 | 1484.9 | 1461.0 | 1407.6 | 1309.1 | 1118.4 | 979.2 | 966.2 | 977.7 | 1067.4 | 1132.6 |
| 40° | 1721.1 | 1718.1 | 1647.9 | 1568.4 | 1486.2 | 1277.1 | 1083.1 | 1019.7 | 1026.4 | 1101.9 | 1146.3 |
| 42.5° | 2003.3 | 1996.0 | 1875.2 | 1750.3 | 1681.0 | 1469.2 | 1220.7 | 1112.2 | 1110.8 | 1169.6 | 1195.1 |
| 45° | 2228.4 | 2222.5 | 2113.7 | 1959.8 | 1904.2 | 1687.9 | 1398.8 | 1250.1 | 1240.3 | 1277.1 | 1285.4 |
| 47.5° | 2350.3 | 2350.7 | 2288.0 | 2162.3 | 2161.0 | 1965.9 | 1627.4 | 1449.8 | 1432.6 | 1450.0 | 1441.2 |
| 50° | 2307.7 | 2313.2 | 2306.6 | 2266.7 | 2395.2 | 2330.4 | 1925.8 | 1728.0 | 1693.6 | 1710.6 | 1676.7 |
| 52.5° | 2101.1 | 2108.4 | 2147.8 | 2209.2 | 2493.7 | 2770.8 | 2364.5 | 2073.6 | 2033.8 | 2027.6 | 1989.9 |
| 55° | 1735.2 | 1744.0 | 1824.5 | 1991.3 | 2411.7 | 3066.6 | 3056.6 | 2514.4 | 2450.7 | 2392.7 | 2376.7 |
| 57.5° | 1196.1 | 1210.6 | 1340.4 | 1587.9 | 2146.8 | 3156.0 | 3880.6 | 3142.7 | 3013.1 | 2810.8 | 2814.6 |
| 60° | 674.2 | 691.2 | 844.0 | 1069.1 | 1612.2 | 3058.9 | 4507.5 | 4094.4 | 3820.6 | 3300.4 | 3328.1 |
| 62.5° | 428.8 | 447.1 | 563.1 | 742.7 | 967.4 | 2536.1 | 4764.5 | 5417.3 | 5069.7 | 3903.9 | 3931.1 |
| 65° | 347.0 | 355.1 | 409.7 | 613.1 | 702.5 | 1527.8 | 4569.5 | 6507.1 | 6377.4 | 4669.7 | 4542.8 |
| 67.5° | 338.8 | 341.4 | 369.7 | 514.5 | 673.5 | 858.8 | 3644.9 | 6710.9 | 6854.7 | 5385.0 | 4797.6 |
| 70° | 334.8 | 344.1 | 416.8 | 491.2 | 645.2 | 724.4 | 2190.2 | 6152.3 | 6379.4 | 5572.0 | 4458.5 |
| 72.5° | 162.5 | 162.0 | 209.7 | 444.2 | 726.6 | 751.3 | 1125.2 | 4977.9 | 5205.8 | 4827.4 | 3663.7 |
| 75° | 131.1 | 119.7 | 114.4 | 162.8 | 698.7 | 775.7 | 717.0 | 3425.2 | 3590.0 | 3236.7 | 2252.2 |
| 77.5° | 124.3 | 111.0 | 101.7 | 101.9 | 295.4 | 822.8 | 607.4 | 1895.8 | 1943.8 | 1462.0 | 617.0 |
| 80° | 102.9 | 90.6 | 84.0 | 94.7 | 143.0 | 783.5 | 656.8 | 858.1 | 787.3 | 359.1 | 205.4 |
| 82.5° | 71.4 | 65.0 | 63.2 | 79.5 | 114.4 | 558.3 | 763.7 | 461.0 | 386.6 | 179.8 | 126.8 |
| 85° | 45.6 | 38.9 | 43.2 | 57.9 | 89.1 | 257.8 | 786.7 | 359.3 | 285.8 | 114.2 | 71.4 |
| 87.5° | 21.1 | 17.1 | 21.3 | 32.0 | 58.2 | 88.8 | 748.6 | 403.7 | 294.3 | 60.2 | 45.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P270153

CATALOG NUMBER: GWC-AF-01-LED-E1-SL2-7027

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1166.9 | 1166.9 | 1166.9 | 1166.9 | 1166.9 | 1166.9 | 1166.9 | 1166.9 | 1166.9 | 1166.9 | 1166.9 |
| 2.5° | 1167.4 | 1162.3 | 1158.4 | 1150.9 | 1142.6 | 1134.6 | 1127.5 | 1118.4 | 1115.7 | 1113.3 | 1117.0 |
| 5° | 1171.2 | 1166.1 | 1151.4 | 1128.5 | 1103.2 | 1079.5 | 1055.7 | 1035.3 | 1022.8 | 1016.0 | 1019.9 |
| 7.5° | 1176.8 | 1169.6 | 1139.2 | 1097.0 | 1051.3 | 1009.8 | 966.8 | 932.4 | 907.1 | 895.0 | 898.6 |
| 10° | 1181.8 | 1167.9 | 1118.4 | 1055.1 | 988.5 | 926.5 | 858.8 | 802.7 | 761.1 | 739.2 | 744.5 |
| 12.5° | 1184.0 | 1161.9 | 1089.3 | 1002.9 | 911.3 | 820.6 | 720.8 | 637.1 | 577.3 | 555.4 | 550.9 |
| 15° | 1186.1 | 1155.0 | 1057.2 | 943.3 | 818.3 | 689.9 | 550.1 | 449.8 | 400.1 | 389.2 | 386.8 |
| 17.5° | 1186.7 | 1143.0 | 1021.0 | 878.8 | 709.1 | 534.3 | 376.2 | 312.4 | 312.7 | 330.2 | 332.5 |
| 20° | 1181.0 | 1124.9 | 976.9 | 798.5 | 578.4 | 369.6 | 258.3 | 247.4 | 287.5 | 331.7 | 337.0 |
| 22.5° | 1168.2 | 1101.3 | 927.1 | 704.8 | 428.8 | 243.4 | 199.9 | 211.8 | 263.8 | 317.7 | 323.8 |
| 25° | 1151.9 | 1072.4 | 868.1 | 596.3 | 283.9 | 173.9 | 167.5 | 182.3 | 217.4 | 253.4 | 256.9 |
| 27.5° | 1129.8 | 1038.4 | 801.9 | 471.9 | 184.3 | 143.3 | 147.5 | 157.5 | 171.8 | 187.8 | 189.5 |
| 30° | 1101.3 | 997.5 | 731.2 | 344.1 | 139.2 | 128.8 | 134.9 | 140.3 | 146.5 | 155.5 | 156.3 |
| 32.5° | 1068.4 | 958.3 | 658.6 | 237.7 | 123.5 | 121.5 | 126.2 | 128.8 | 133.7 | 139.2 | 139.7 |
| 35° | 1041.0 | 920.9 | 583.4 | 168.1 | 116.9 | 115.8 | 118.9 | 120.1 | 124.5 | 130.8 | 131.2 |
| 37.5° | 1025.2 | 890.5 | 505.8 | 135.6 | 112.3 | 110.8 | 112.6 | 112.6 | 118.9 | 128.1 | 129.4 |
| 40° | 1026.4 | 873.7 | 428.2 | 122.4 | 108.5 | 106.4 | 106.7 | 106.7 | 115.1 | 124.9 | 125.7 |
| 42.5° | 1055.4 | 878.0 | 359.3 | 117.4 | 105.6 | 103.2 | 101.9 | 102.6 | 109.7 | 116.1 | 116.6 |
| 45° | 1123.7 | 908.1 | 294.9 | 114.2 | 102.6 | 101.9 | 99.0 | 98.8 | 101.4 | 104.4 | 104.4 |
| 47.5° | 1235.8 | 967.7 | 251.0 | 112.1 | 100.3 | 100.0 | 96.6 | 93.2 | 92.9 | 94.0 | 94.0 |
| 50° | 1418.0 | 1070.2 | 221.7 | 109.7 | 98.8 | 96.6 | 92.5 | 87.2 | 85.3 | 86.1 | 86.1 |
| 52.5° | 1691.1 | 1252.7 | 210.6 | 106.4 | 95.2 | 91.7 | 87.2 | 81.8 | 80.3 | 80.6 | 80.6 |
| 55° | 2049.5 | 1533.4 | 208.9 | 102.6 | 91.4 | 85.9 | 82.1 | 78.2 | 76.3 | 76.8 | 76.8 |
| 57.5° | 2487.1 | 1921.7 | 237.4 | 96.8 | 86.4 | 79.9 | 78.0 | 75.3 | 73.9 | 74.6 | 74.4 |
| 60° | 3019.5 | 2429.6 | 352.1 | 90.6 | 81.3 | 74.6 | 74.6 | 72.6 | 71.4 | 72.4 | 72.0 |
| 62.5° | 3632.6 | 3013.1 | 495.1 | 86.1 | 76.0 | 70.4 | 71.4 | 70.4 | 69.3 | 69.9 | 69.6 |
| 65° | 4176.2 | 3393.2 | 463.6 | 82.7 | 70.6 | 66.5 | 68.4 | 67.7 | 67.0 | 67.6 | 67.3 |
| 67.5° | 4192.0 | 3252.4 | 260.4 | 79.1 | 65.7 | 62.4 | 65.0 | 64.9 | 64.3 | 64.9 | 64.6 |
| 70° | 3741.1 | 2746.3 | 146.8 | 72.0 | 60.2 | 57.6 | 61.4 | 61.1 | 60.5 | 61.7 | 61.4 |
| 72.5° | 2997.4 | 1992.9 | 107.3 | 63.5 | 54.9 | 52.6 | 56.9 | 56.6 | 56.6 | 58.2 | 57.3 |
| 75° | 1724.7 | 1025.5 | 85.7 | 54.4 | 49.3 | 47.5 | 51.3 | 51.6 | 52.0 | 54.2 | 52.6 |
| 77.5° | 491.7 | 319.5 | 69.9 | 46.2 | 42.4 | 41.6 | 45.4 | 46.0 | 46.2 | 48.6 | 46.4 |
| 80° | 182.7 | 147.2 | 57.6 | 38.6 | 34.7 | 34.9 | 38.4 | 39.3 | 39.4 | 42.0 | 39.3 |
| 82.5° | 116.6 | 97.0 | 46.7 | 29.9 | 27.2 | 26.9 | 31.3 | 32.2 | 32.2 | 32.6 | 30.9 |
| 85° | 68.0 | 58.2 | 35.3 | 21.6 | 19.3 | 18.4 | 23.1 | 25.2 | 24.3 | 23.7 | 22.6 |
| 87.5° | 45.6 | 40.1 | 21.6 | 11.9 | 10.4 | 9.9 | 13.7 | 14.9 | 14.5 | 13.7 | 12.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)